# Front implementation code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Manufacturing Sector Dashboard</title>

<style>

/\* Global styles \*/

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f5f5dc; /\* Cream background \*/

color: #333; /\* Dark text color \*/

}

.container {

max-width: 1000px;

margin: 20px auto;

padding: 20px;

background-color: #fff; /\* White background \*/

border: 1px solid #ccc;

border-radius: 10px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1); /\* Light shadow \*/

}

h1, h2, h3 {

color: #0000ff; /\* Blue heading color \*/

font-weight: bold;

text-align: center;

}

label {

display: block;

font-weight: bold;

margin-bottom: 5px;

}

input[type="text"],

input[type="date"],

input[type="time"],

input[type="number"],

select {

width: 100%;

padding: 8px;

border: 1px solid #ccc;

border-radius: 5px;

background-color: #f9f9f9; /\* Light gray background \*/

color: #333; /\* Dark text color \*/

margin-bottom: 10px;

}

.btn {

padding: 10px 20px;

color: #fff;

border: none;

border-radius: 5px;

cursor: pointer;

transition: background-color 0.3s ease, opacity 0.3s ease; /\* Smooth transition \*/

display: flex;

align-items: center;

justify-content: center;

}

.btn img {

margin-right: 5px;

}

.btn-green {

background-color: #2ecc71; /\* Green color for buttons \*/

}

.btn-blue {

background-color: #3498db; /\* Blue color for buttons \*/

}

.btn-red {

background-color: #e74c3c; /\* Red color for buttons \*/

}

.filter-btn {

background-color: #e74c3c; /\* Red color for filter button \*/

}

.filter-btn:hover {

background-color: #c0392b; /\* Darker red on hover \*/

}

/\* Homepage specific styles \*/

#login-form {

margin-top: 20px;

text-align: center;

}

#login-form .btn {

margin-top: 10px;

display: inline-block;

width: 150px;

}

/\* Dashboard specific styles \*/

#dashboard-form {

margin-top: 20px;

}

#dashboard-form .btn {

margin-top: 10px;

display: inline-block;

width: 150px;

}

/\* Applications specific styles \*/

.applications {

margin-top: 20px;

text-align: center;

}

/\* FAQs specific styles \*/

.faqs {

margin-top: 20px;

text-align: center;

}

/\* Key Features specific styles \*/

.key-features {

margin-top: 20px;

text-align: center;

}

/\* Contact specific styles \*/

.contact-details {

margin-top: 20px;

text-align: center;

}

/\* Box styles \*/

.box {

padding: 20px;

margin-top: 20px;

border: 2px solid #3498db; /\* Blue border \*/

border-radius: 10px;

background-color: #2c3e50; /\* Darker blue background \*/

}

.box h3 {

color: #3498db; /\* Blue color for section headers \*/

margin-bottom: 20px;

}

.box p {

color: #ecf0f1; /\* Lighter text color \*/

}

</style>

</head>

<body>

<!-- Homepage -->

<div class="container">

<h1>Manufacturing Sector Dashboard</h1>

<div id="login-form">

<form action="{{ url\_for('login') }}" method="post">

<label for="email">Email:</label>

<input type="email" id="email" name="email" required><br>

<label for="password">Password:</label>

<input type="password" id="password" name="password" required><br>

<button type="submit" class="btn btn-blue"><img src="login\_icon.png" alt="Login Icon">Login</button>

<a href="{{ url\_for('register') }}" class="btn btn-green"><img src="register\_icon.png" alt="Register Icon">Register</a>

</form>

</div>

</div>

<!-- Dashboard Page -->

<div class="container">

<h2>Data Input and Filtering</h2>

<form id="dashboard-form">

<label for="input">Input:</label>

<input type="text" id="input" name="input" required><br>

<label for="output">Output:</label>

<input type="text" id="output" name="output" required><br>

<label for="start-date">Start Date:</label>

<input type="date" id="start-date" name="start-date" required>

<label for="start-time">Start Time:</label>

<input type="time" id="start-time" name="start-time" required><br>

<label for="end-date">End Date:</label>

<input type="date" id="end-date" name="end-date" required>

<label for="end-time">End Time:</label>

<input type="time" id="end-time" name="end-time" required><br>

<button type="submit" class="btn btn-blue"><img src="filter\_icon.png" alt="Filter Icon">Filter Data</button>

<button type="button" class="btn btn-green"><img src="max\_icon.png" alt="Max Icon">Max</button>

<button type="button" class="btn btn-red"><img src="min\_icon.png" alt="Min Icon">Min</button>

<button type="button" class="btn btn-blue"><img src="excel\_icon.png" alt="Excel Icon">Export to Excel</button>

<button type="button" class="btn btn-green"><img src="chart\_icon.png" alt="Chart Icon">Generate Run Chart</button>

</form>

</div>

<!-- Applications Page -->

<div class="container">

<div class="box">

<h3>Applications</h3>

<p>The Manufacturing Sector Dashboard can be utilized for various applications:</p>

<ul>

<li>Monitoring production output over time</li>

<li>Identifying trends and patterns in manufacturing data</li>

<li>Setting quality control thresholds</li>

<li>Comparing performance across different production lines</li>

</ul>

</div>

</div>

<!-- FAQs Page -->

<div class="container">

<div class="box">

<h3>FAQs</h3>

<p>Here are some frequently asked questions about the Manufacturing Sector Dashboard:</p>

<ul>

<li><strong>Q:</strong> How often is the data updated?</li>

<li><strong>A:</strong> The data is updated in real-time as new measurements are recorded.</li>

<li><strong>Q:</strong> Can I export the data to other formats?</li>

<li><strong>A:</strong> Yes, you can export the data to Excel format for further analysis.</li>

<li><strong>Q:</strong> Is there a limit to the number of data points that can be displayed?</li>

<li><strong>A:</strong> The dashboard can handle large datasets with efficient data visualization techniques.</li>

</ul>

</div>

</div>

<!-- Key Features Page -->

<div class="container">

<div class="box">

<h3>Key Features</h3>

<p>Explore the key features of the Manufacturing Sector Dashboard:</p>

<ul>

<li>Data input and filtering options</li>

<li>Real-time monitoring of production output</li>

<li>Export data to Excel for further analysis</li>

<li>Generate run charts for trend analysis</li>

</ul>

</div>

</div>

<!-- Contact Page -->

<div class="container">

<div class="box">

<h3>Contact Us</h3>

<p>For any inquiries or assistance, feel free to contact us:</p>

<ul>

<li>Email: info@manufacturingdashboard.com</li>

<li>Phone: +1 (123) 456-7890</li>

<li>Address: 123 Manufacturing St, Cityville, State, Country</li>

</ul>

</div>

</div>

</body>

</html>

# Backend implementation:

from flask import Flask, render\_template, request, redirect, url\_for, session

from werkzeug.security import generate\_password\_hash, check\_password\_hash

app = Flask(\_name\_)

app.secret\_key = 'your\_secret\_key' # Change this to a random string

# Dummy database for user authentication

users = {

'admin': generate\_password\_hash('admin') # Hashed password for 'admin'

}

# Function to check if user is logged in

def is\_logged\_in():

return 'username' in session

# Login route

@app.route('/login', methods=['GET', 'POST'])

def login():

if request.method == 'POST':

username = request.form['username']

password = request.form['password']

if username in users and check\_password\_hash(users[username], password):

session['username'] = username

return redirect(url\_for('dashboard'))

else:

return render\_template('login.html', error='Invalid username or password')

return render\_template('login.html')

# Logout route

@app.route('/logout')

def logout():

session.clear()

return redirect(url\_for('login'))

# Dashboard route

@app.route('/dashboard')

def dashboard():

if is\_logged\_in():

# Provide data for the dashboard here

# For simplicity, let's just pass some dummy data

data = {

'output\_type': 'Strength',

'start\_date': '2024-06-01',

'end\_date': '2024-06-30',

'start\_time': '08:00',

'end\_time': '18:00',

'max\_value': 100,

'min\_value': 50

}

return render\_template('dashboard.html', data=data)

else:

return redirect(url\_for('login'))

if \_name\_ == '\_main\_':

app.run(debug=True)

# output sample:

# 

# **Link of website:**

file:///C:/Users/varsh/frontend%20code.html